ThinkPad® X220 (4287) - TopSeller (January 2012)

Type-model	Processor	Memory	Widescreen display	Camera	Disk SATA GB[8] rpm	Optical in UltraBase	ThinkPad Ultrabase Series 3	PCIe Mini Card WLAN	PCIe Mini Card WWAN	Battery cells	Intel AMT	Intel vPro	Preload	Ann Date (mm/yy)
4287-67U	i7-2640M	4GBx1	12.5" HD	720p	128G SSD	DVD±RW	UltraBase	Intel 6205	WWAN upg	6	iAMT	vPro	Pro 64	01/12
4287-5UU	i5-2450M	4GBx1	12.5" HD	720p	128G SSD	Optional	Optional	Intel 1000	WWAN upg	6	No	No	Pro 64	01/12
4287-5TU	i5-2450M	4GBx1	12.5" HD	720p	320G 7200	Optional	Optional	Intel 1000	WWAN upg	6	No	No	Pro 64	01/12

- ***Small and medium business (SMB) model(s), part of the US TopSeller™ Program***
- ***A depot repair service 3-year limited warranty***
- ***Microsoft® Office 2010 Product Key Ready (O10PKR)***

Positioning	*An ultraportable for the executive on the move; one spindle*
Processor	**Intel® Core™ i5-2450M processor (dual-core, 2.50GHz, 3MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.10GHz), HT technology **Intel Core i7-2640M processor (dual-core, 2.80GHz, 4MB Cache)**, DDR3 memory controller (up to 1333MHz), Intel Turbo Boost 2.0 (3.50GHz), HT technology
Memory	8GB max[7] / PC3-10600 1333MHz DDR3, non-parity, dual-channel capable, two 204-pin SO-DIMM sockets
Optical	*Some:* DVD burner, removable from ThinkPad Ultrabase Series 3
Ultrabay	Supports Ultrabay Slim devices in optional or standard ThinkPad Ultrabase Series 3 (0A33932)
Disk	*Some:* Solid State Drive (SSD) / SATA 3.0Gb/s, 2.5" wide, 7mm high *Some:* Hard Disk Drive / SATA 3.0Gb/s, 2.5" wide, 7mm high, Active Protection System™ *All:* removable, upgradable, Shock Mounted Hard Drive, supports the second disk in optional or standard ThinkPad Ultrabase Series 3
mSATA™ SSD	None
Display	**12.5"** (317.5mm) **HD (1366x768) TFT color**, anti-glare, LED backlight, 200 nits, 16:9 aspect ratio, 300:1 contrast ratio
Camera	HD720p resolution, wider view angle, low light sensitive, fixed focus
Graphics	**Intel HD Graphics 3000** in processor, external analog monitor support via VGA DB-15 connector and digital monitor support via DisplayPort™ (supports single-link DVI-D via cable 45J7915); supports dual independent display; *Maximum external resolution:* 2560x1600 (DisplayPort)@60Hz; 2048x1536 (VGA)@75Hz; 1920x1200@60Hz (single-link DVI-D via cable 45J7915)
Keyboard	7 row, 89-key, ThinkVantage® button, spill-resistant, multimedia Fn keys
TrackPoint®	TrackPoint pointing device, "Press-to-Select," Internet Scroll Bar[13], magnifying glass
Touchpad	UltraNav™, buttonless touchpad below keyboard, multi-touch
ThinkLight™	Illuminates the keyboard to improve visibility in low-light conditions
Dimensions[3]	*without UltraBase; 4/6-cell:* 12.0" x 8.13" x 0.75-1.36"; 305mm x 206.5mm x 19.0-34.6mm
Weight[2]	*4-cell:* from 2.97 lb (1.35kg); *6-cell:* from 3.31 lb (1.50kg); *9-cell:* from 3.67 lb (1.67kg)
Case material	*Display cover:* Magnesium + PCABS; *Bottom:* Magnesium alloy
Standard Battery	Lithium Ion 4-cell, 6-cell, or 9-cell, supports optional external battery (0A36280) as 2nd battery
Extended Battery	None
Battery - life[10]	*4-cell (28Whr):* up to 4.1 hr; *6-cell (62.4Whr):* up to 9.2 hr; *9-cell (99.9Whr):* up to 13.8 hr; *external battery (64Whr):* up to 9.4 hr; *9-cell plus external battery:* up to 23.2 hr
Chipset	**Mobile Intel QM67 Express Chipset**
Ultrabase	*Some:* ThinkPad Ultrabase Series 3 (see right side)
Multicard reader	4-in-1 reader (SD, SDHC, SDXC, MMC)
ExpressCard	One slot (ExpressCard/34, ExpressCard/54)
Ports	*i7 model:* One USB 3.0, two USB 2.0 (one powered) *other model:* Three USB 2.0 (one powered) external monitor (VGA DB-15, DisplayPort), ethernet (RJ-45)
PCIe Mini Card	Two PCI Express® Mini Card slots
PCIe WLAN[4]	*Some:* 11b/g/n wireless, PCIe Half Mini Card, Intel Centrino® Wireless-N 1000, 1x2 *Some:* 11a/b/g/n[28], PCIe Half Mini Card, Intel Centrino Advanced-N 6205, 2x2
PCIe WWAN	Wireless WAN upgradable
Carrier	None
Modem	None
Bluetooth™	Bluetooth 3.0 wireless, LED indicator
Ethernet	Intel 82579LM Gigabit Network Connection (Lewisville), PHY, PCIe x1
Intel AMT	*Some:* Intel Active Management Technology (iAMT)
Audio support	High Definition (HD) Audio, Conexant 20672 codec / stereo speakers, 1 watt x 2 / volume up, down, mute buttons / dual array mic, mic mute button, combo audio/mic jack
Security	Power-on password, hard disk password, supervisor password, security keyhole
Security chip	Trusted Platform Module, TCG 1.2-compliant
Fingerprint reader	UPEK Fingerprint reader on palm rest, swipe sensor, LED indicator, Power On Authentication, supports the security chip
Limited Warranty[12]	**3-years**/1-yr battery - depot repair service / service upgrades[22] available

Preloaded operating system[20]
Genuine Windows® 7 Professional 64

Ready to install applications[14] (only some listed)
- Rescue and Recovery™
- Access Connections™
- Fingerprint Software (fingerprint models)
- Password Manager (fingerprint models)
- ThinkVantage® System Update
- ThinkVantage Power Manager
- ThinkVantage Toolbox

Preloaded applications[14] (only some listed)
- Adobe® Reader®
- Microsoft® Office 2010 preloaded; purchase product key to activate
- Corel® WinDVD® (DVD±RW)
- Corel Burn.Now™ Lenovo® Edition (DVD±RW)
- Corel DVD MovieFactory® Lenovo Edition (DVD±RW)

Supports ThinkVantage technologies

ThinkPad Ultrabase Series 3
- Provides desktop expansion and cable management for X220 and X220 Tablet
- Easily connects to the bottom of the X220 or X220 Tablet for traveling
- Converts ThinkPad to a two-spindle system with optional Ultrabay Slim accessories in right side:
  - DVD-ROM Ultrabay Slim Drive II SATA 1.5G/s 43N3292
  - Serial ATA Hard Drive 9.5mm Bay Adapter III 43N3412
  - Disks supported (some):
    - 128GB 2.5" SSD II 0A33984

Other features:
- Power button (front)
- Security key lock, security keyhole
- Analog VGA DB-15 monitor port
- DisplayPort™ (supports single-link DVI-D via cable 45J7915)
- Four USB 2.0 ports
- Gigabit ethernet (RJ-45) port
- Microphone in and headphone out
- Requires 65W or 90W AC adapter
- 1.39 lb; 630g

65W AC Adapter
ENERGY STAR® 5.0-compliant
ROHS-compliant
International Warranty Service[17]
24 hour x 7 day[18] toll-free support during the warranty period[12] via 800-426-7378

See footnotes for more detailed information
US model(s) announced January 3 or January 17, 2012

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